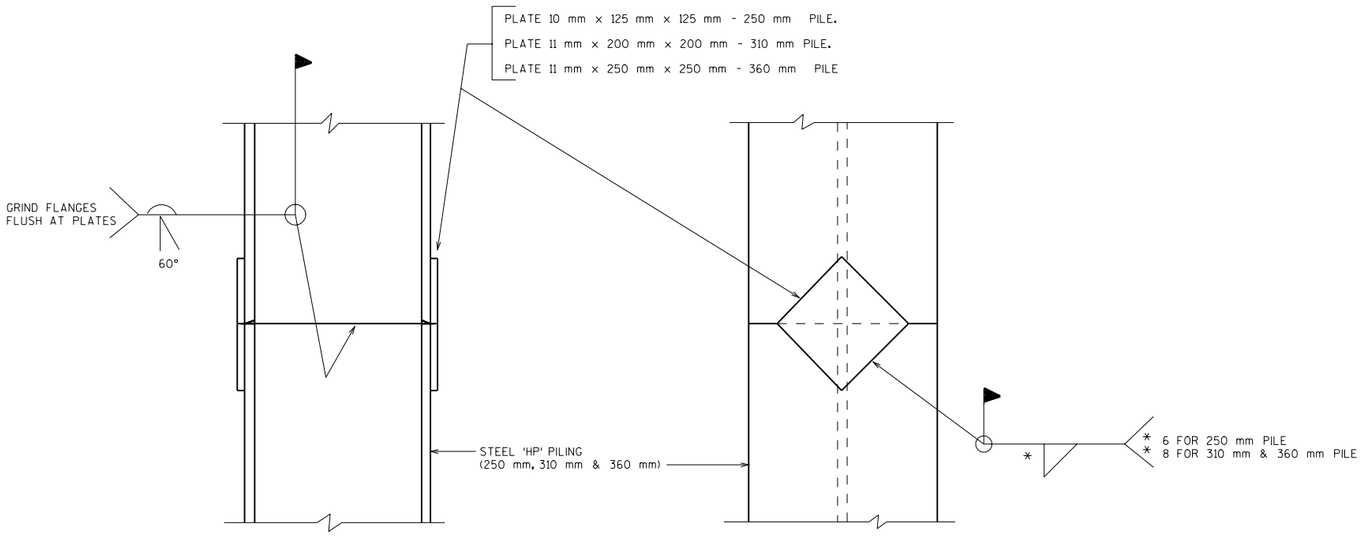


STEEL 'HP' SHAPES

DESIGNER NOTES

IF PILES ARE EXPOSED IN COMPLETED STRUCTURE AND SUBJECT TO BENDING, PLACE THE FOLLOWING NOTE ON PLANS:
PILE SPLICES SHALL BE MADE BY A CERTIFIED WELDER USING LOW HYDROGEN ELECTRODES.

IF APPLICABLE, PLACE THE FOLLOWING NOTE ON THE PLANS:
PILES PLACED IN PREBORED HOLES CORED INTO ROCK DO NOT REQUIRE DRIVING.

FULL DESIGN LOADING CAN BE USED IF PREBORED HOLE IS LARGE ENOUGH TO AVOID PILE HANGUPS AND ALLOW FILLING WITH CONCRETE.

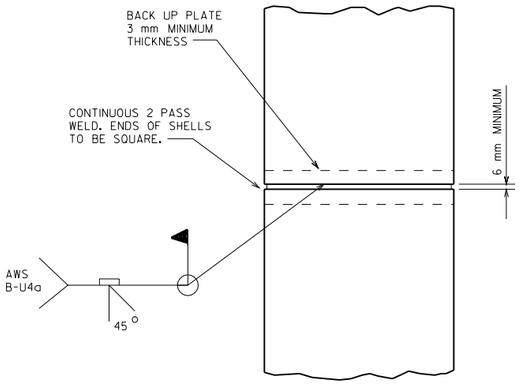
NOTES

CAST-IN-PLACE PILE SHELL MATERIAL SHALL BE A.S.T.M. DESIGNATION A-252, GRADE 2 OR EQUAL.

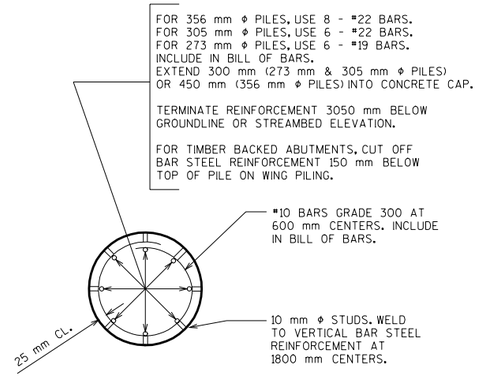
STEEL 'HP' PILE MATERIAL SHALL BE A.S.T.M. DESIGNATION A36M.

PILE BEARING CAPACITY

1. CAST-IN-PLACE:
   - A. 273 mm DIA. - 490 kN/PILE
   - B. 305 mm DIA. - 580 kN/PILE
   - C. 356 mm DIA. - 710 kN/PILE
2. STEEL 'HP':
   - A. MAX. STRESS OF 40 MPa WHERE BOULDERS ARE PRESENT.
   - B. MAX. STRESS OF 60 MPa WITHOUT LOAD TEST FOR COMPACT SOILS AND SOFT ROCK.
   - C. MAX. STRESS OF 80 MPa WITHOUT LOAD TEST IF BEARING ON SOUND ROCK.
   - D. MAX. STRESS OF 110 MPa WITH LOAD TEST IF BEARING ON SOUND ROCK.



CAST-IN-PLACE
'PIPE PILE'



SECTION THRU CONCRETE
CAST-IN-PLACE PILING
USED WHEN PILES ARE EXPOSED
(PIER BENTS OR TIMBER BACKED ABUTMENTS)

PILE DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DEVELOPMENT SECTION

APPROVED: _____ DATE: 6/02

METRIC STANDARD 11.1